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~~22.~~ The two-part bicarbonate solution of Claim ⁷~~21~~ wherein the first solution is stored in a first chamber of a multi-chamber container and the second solution is stored in a second chamber of the multi-chamber container.

⁹
~~23.~~ The two-part bicarbonate solution of Claim ⁷~~21~~ wherein the mixed solution comprises:
bicarbonate mM 5 to 45; and
calcium mM 0.2 to 2.0.

¹⁰
~~24.~~ The two-part bicarbonate solution of Claim ⁷~~21~~ wherein the mixed solution comprises:
bicarbonate mM 5 to 45;
calcium mM 0.2 to 2.0;
sodium mM 100 to 150;
magnesium mM 0 to 1.5;
potassium mM 0 to 4.5;
chloride mM 70 to 120;
lactate mM 0 to 60; and
acetate mM 0 to 60.

¹¹
~~25.~~ The two-part bicarbonate solution of Claim ⁷~~21~~ further comprising an osmotic agent selected from the group consisting of: glucose; glucose polymers; modified starch; amino acids; peptides; and glycerol.

¹²
~~26.~~ The two-part bicarbonate solution of Claim ~~21~~⁷ wherein the solutions are stored in a gas permeable material.

¹³
~~27.~~ A two-part bicarbonate solution for peritoneal dialysis, the solution comprising:
a first part stored in a first container and including an alkaline bicarbonate concentrate, the alkaline bicarbonate concentrate having a pH ranging from about 9.0 to 10.0; and
a second part stored in a second container and including an acidic concentrate, the acidic concentrate having a pH ranging from about 1.0 to 3.0 wherein the mixed solution comprises:

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bicarbonate mM	5 to 45;
calcium mM	0.2 to 2.0;
sodium mM	100 to 150;
magnesium mM	0 to 1.5;
potassium mM	0 to 4.5;
chloride mM	70 to 120;
lactate mM	0 to 60; and
acetate mM	0 to 60.

¹⁴
~~28.~~ The two-part bicarbonate solution of Claim ~~27~~¹³ wherein solutions are stored in a first container that is a first chamber of a multi-chamber container and a second container that is a second chamber of the multi-chamber container.